1.0 Preparation and company identity

Identification of the preparation

HP Laser Jet Cartridge C4127X

Company identification

HEWLETT-PACKARD COMPANY
11311 Chinden Blvd.
Boise, ID 83714

Telephone number

Hewlett-Packard - General Information
208 323-2551

2.0 Composition/information on ingredients

This product is a toner preparation that is used in a Hewlett-Packard 4000/4050 LaserJet printer.

Ingredients

Substance	CAS number	Percent (wt)	Symbol	R Phrase
Styrene Acrylate Copolymer		**40 - 50**	**-**	**-**
Iron Oxide	**(1317-61-9)**	**40 - 50**	**-**	**-**

3.0 Hazards identification

Potential Health Effects

Ingestion effects: **Ingestion is not applicable route of entry for intended use.**
Inhalation effects: **Minimal respiratory tract irritation may occur with exposure to large amount of toner dust.**
Eye Effects: **May cause eye irritation.**
Skin effects: **Unlikely to cause skin irritation.**
Chronic Effects: **None known**

Environmental hazards

No particular hazards known.

4.0 First-aid measures

Ingestion

Rinse mouth with water. Drink one to two glasses of water. If symptoms occur, consult a physician.

Inhalation

Move person to fresh air immediately. If symptoms occur, consult a physician.

Eye Contact

Immediately flush with large amounts of clean, lukewarm water (low pressure) for at least 15 minutes. If irritation persists, consult a physician.

Skin Contact

Wash affected areas thoroughly with soap and water. If irritation persists, consult a physician.

5.0 Fire-fighting measures

Flash Point (method used):	**No data available**
Ignition Temperature:	**No data available**
Flammability:	**Non-flammable solid (according to test methods of USA 16 CFR 1500.44 and 84/449/EEC (Annex V)**
Flammable Limits:	**No data available**
Extinguishing Media:	**$C0_2$, water, dry chemical**
Special Fire Fighting Procedures:	**None**
Unusual Fire & Explosion Hazards:	**Toner material, like most organic material in powder form, is capable of creating a dust explosion.**

6.0 Accidental release measures

Spill and Leakage Procedures

Wear personal protective equipment as described in Section 8. Avoid breathing dust. Minimize the release of particles. Vacuum or sweep the material into a bag or other sealed container. If a vacuum is used, the motor must be rated as dust tight. Dispose of waste toner in accordance with local requirements.

Environmental precautions

Do not discharge into drains (See also Section 13, Disposal Considerations).

7.0 Handling and storage

Advise on safe handling and protection against fire

Keep material out of reach of children. Avoid inhalation of dust and contact with eyes. Keep away from excessive heat, sparks, and open flames.

Requirements for storage rooms and advice on storage compatibility

Keep out of the reach of children. Keep container closed and store at room temperature. Keep away from strong oxidizers.

8.0 Exposure controls / personal protection

Exposure Limits For Toner:

USA OSHA (TWA[5])/PEL):	**15 mg/m^3 (Total Dust)**
	5 mg/m^3 (Respirable Fraction)
ACGIH (TWA/TLV):	**10 mg/m^3 (Inhalable Particulate)**
	3 mg/m^3 (Respirable Particulate)
DFG (MAK):	**6 mg/m^3 (Feinstaubkonzentration)**
(Also refer to Section 2.)	
Respiratory Protection:	**Not required under intended use.**
Ventilation:	**Good general ventilation should be sufficient under intended use.**
Protective Gloves:	**Not required under intended use.**
Eye Protection:	**Not required under intended use.**
Other Protective Equipment:	**Not required under intended use.**

9.0 Physical and chemical properties

Boiling Point:	**Not applicable**
Melting Point:	**100 - 150°C (Softening Point)**
Vapor Pressure (mmHg.):	**Not applicable**
Vapor Density (Air=1):	**Not applicable**
Solubility in Water:	**Negligible**
Solubility in Organic Solvents:	**Partially soluble in toluene and xylene.**
Specific Gravity (H_20=1):	**1.4- 1.8**
Percent Volatile by Volume:	**Not applicable**
Evaporation Rate (Butyl Acetate=1):	**Not applicable**
pH:	**Not applicable**
Appearance and Odor:	**Fine black powder, slight plastic odor.**

10.0 Stability and reactivity

Stability :	**Stable**
Incompatibility:	**Strong oxidizers**
Hazardous Decomposition Products:	**Combustion will produce carbon dioxide and, possibly toxic chemicals such as carbon monoxide.**
Hazardous Polymerization:	**Will not occur.**

11.0 Toxicological information

Acute Toxicity:

Inhalation:	**LC_{50}: inh-rat>5mg/L/4 hrs. (data from similar toner), not harmful.**
Ingestion:	**LD_{50}: orl-rat>2000 mg/kg (data from ingredients of toner), not harmful.**
Eye Contact:	**Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC (data from ingredients of toner).**
Skin Contact:	**Not classified as irritant, according to OSHA Hazard Communication Standard (HCS) and EU Directive 67/548/EEC.**
Chronic Toxicity:	**No data available.**
Sensitization:	**Not classified as a sensitizer according to EU Directive 67/548/EEC and strong sensitizer list of OSHA HCS (US).**
Mutagenicity:	**Negative, does not indicate mutagenic potential, (Ames Test: Salmonella typhimurium)**
Carcinogenicity:	**Not a known or suspected carcinogen according to any IARC Monograph, NTP, OSHA Regulations (USA), EU Directive, or Proposition 65 (California).**
Reproductive Toxicity:	**Not classified as toxic according to EU Directive 67/548/EEC, California Prop. 65, or DFG (Germany).**
Other:	**Sub-Acute Toxicity (Rat)- 90 day inhalation test, No Observable Effect Level (NOEL): 16 mg/m^3. Expected air concentration levels under printing conditions are <0.01 mg/m^3.**

12.0 Ecological information

No data available for ecological and wastewater treatment (sewage) systems. Avoid spills and dispose of in accordance with applicable laws and regulations.

13.0 Disposal considerations

Product / unused product / contaminated packaging (for Germany only)

Recommendation: consult with the disposal agency and the relevant authorities; cleansing agent is water.

14.0 Transportation information

International Transport Information:

UN No.:	**None**
UN Shipping Name:	**None**
Hazards Class:	**None**
Packing Group:	**None**
Special Precautions:	**None**

15.0 Regulatory information

Chemicals Required to Report Under Sara Title III Section 313 (USA):
None

Chemicals Required to Report Under California Proposition 65 (USA):
None

Label Information According to the Directives 88/379/EEC and 67/548/EEC (EU):

Symbol and Indications:	**Not required.**
R Phrases:	**Not required.**
S Phrases:	**Not required.**
Dangerous Components (CAS No.) wt%:	**None**
Other:	**None**

Special provisions in relation to protection of man or the environment:

(EEC) 2455/92:	**Not regulated.**
76/769/EEC:	**Not regulated.**
(EC)3093/94	**Not regulated.**
Other:	**None**

16.0 Other information

This information is based on our present state of knowledge. It should not therefore be construed as guaranteeing specific properties of the products as described or their suitability for a particular application.

For general information, contact Hewlett-Packard at 208 323-2551.